

### **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **LISTING OF CLAIMS:**

Claims 1 to 7. (Canceled).

8. (New) A fuel injector, comprising:

a nozzle body; and

a valve needle positioned in the nozzle body, actuatable by an actuator and acted upon by a restoring spring to keep a valve-closure member, which is operatively connected to the valve needle and faces a combustion chamber of an internal combustion engine, in sealing contact with a valve-seat surface in a non-actuated state of the actuator;

wherein a surface of the fuel injector includes a concave shape in a transition region between the nozzle body and the valve-closure member.

9. (New) The fuel injector according to claim 8, wherein the fuel injector is adapted for direct injection of fuel into the combustion chamber.

10. (New) The fuel injector according to claim 8, wherein the transition region is formed by two mutually abutting surfaces of the nozzle body and the valve-closure member.

11. (New) The fuel injector according to claim 10, wherein an angle between the surfaces is smaller than 180°.

12. (New) The fuel injector according to claim 8, wherein one edge is formed on each of the nozzle body and the valve-closure member.

13. (New) The fuel injector according to claim 12, wherein the edges include edge angles that each amount to at least 90°.

14. (New) The fuel injector according to claim 13, wherein a sum of the edge angles amounts to at least  $180^\circ$ .

15. (New) The fuel injector according to claim 8, wherein the transition region is recessed relative to a surface plane.